

Index to Authors—Volume 12, 1985

Current Microbiology

© Springer-Verlag 1985

- Ahring, Birgitte K., 273
Asari, Keiko, 283
- Bal, Arya K., 353
Balkwill, David L., 261
Barrowman, Margaret M., 235
Bartnicki, Ildiko, 141
Bartnicki-Garcia, Salomon, 141
Baumann, Paul, 65
Beery, John T., 277
Bercovier, Herve, 183
Bergquist, Peter L., 295
Bothe, Hermann, 341
Bowditch, Ron D., 65
Boyd, Mark S., 97
Brenden, Rita, 163
Bressan, Ray A., 73
Brice, Richard E., 217
Brown, Arnold, 23, 347
Brown, Jacqueline G., 127
Burr, Donald H., 277
- Campbell, James D., 101
Canzi, Enrica, 1
Caviedes, Miguel A., 325
Ceccarelli, Anna, 1
Chaloupka, Jiří, 9
Chen, Grace C. C., 23, 347
Cheung, Peter Y. K., 121
Clark, George C., 203
Clark, Richard B., 163
Coleman, Geoffrey S., 85
Colombrita, Domenico, 13
Cryz, Stanley J., Jr., 147
- Danneberg, Gerhard, 341
De Bont, J. A. M., 267
De Figueroa, Lucia I., 5
De Richard, Mirta S., 5
De van Broock, Maria R., 5
Del Castillo Agudo, Lucas, 41
Dijkmans, Ben A. C., 53
Doyle, Geraldine, 197
- Eagon, Robert G., 17
Edwards, John R., 135
El-Falaha, Bahgat M. A., 187
- Ellis, Alec B., 175
Engels, Ferdinand M., 217
Everhart, Donald L., 117, 197
- Ferrari, Annamaria, 1
Ferrer, Sergi, 301
Fesce, Edoardo, 1
Fewson, Charles A., 235
Fox, George E., 69
Fujii, Tadashi, 257
Furer, Emil, 147
Furr, James R., 187
- Gamon, Lindsay, 107
Goma, Gerard, 245
Gottschalk, Ellen, 203
Grbić-Galić, Dunja, 321
Green, James H., 209
Groenwold, Zandra E., 45
- Hall, Elaine, 17
Hammock, Bruce D., 121
Handa, Avtar K., 73
Heyer, Wolf-Dietrich, 169
Hillman, Kevin, 335
Hirschberg, Rona, 27
Holt, Stanley, 203
Houston, Clifford W., 101
Hutchinson, William F., 27
- Janda, J. Michael, 163
Jayaswal, Radheshyam K., 73
- Kamada, Takashi, 257
Katarincic, Julie, 251
Kessler, Efrat, 307
Klinger, Jeffrey D., 91
Kohli, Jürg, 169
Kotani, Hitoshi, 107
- La Pat-Polasko, Laura, 321
Lane, David, 295
Lema, Michael W., 347
Levin, Yehuda, 307
Lindsay, James A., 329
Lloyd, David, 335
Loubiere, Pascal, 245
Luehrsen, Kenneth R., 69
- Maratea, Denise, 261
Mallett, Corey P., 117
Mattie, Herman, 53
McCurdy, Howard D., 289
McGarrity, Gerard J., 107
Megias, Manuel, 325
Meir, Efrat, 315
Meloni, Giovanna, 13
Minelli, Filomena, 13
Mishell, Robert L., 203
Montañés, Miguel A., 229
Moriyón, Ignacio, 229
Mormeneo, Salvador, 225
Murrell, William G., 329
- Nakagawa, Tohru, 257
Narbone, Nicoló, 13
Nicholson, Diamuid E., Jr., 69
- Pacaud, Stephane, 245
Pacini, Novella, 1
Palmer, Patricia L., 97
Palomares, Antonio J., 325
Passador, Luciano, 289
Paszul, Paula J., 251
Pine, Leo, 209
Pirali, Franco, 13
Plotkin, Balbina J., 97
Popoff, Michel R., 151
- Quigley, Neil B., 295
- Ramón, Daniel, 301
Ravizzola, Giuseppe, 13
Resnick, Murray, 183
Rodriguez-Quinones, Francisco, 325
Rogers, David T., 187
Ruiz-Berraquero, Francisco, 325
Russell, A. Denver, 187
- Safrin, Mary, 307
Salom, Joan, 301
Sato, Noriko, 283
Scholten, J., 267
Schuldiner, Shimon, 183
Sell, Stewart, 157
Sen, Dipankar, 353
- Sentandreu, Rafael, 141, 225
Sherman, James M., 91
Sherman, Warren V., 97
Shryock, Thomas R., 91
Sideropoulos, Aris S., 31, 251, 311
Sipiczki, Mátyás, 169
Skvaril, Frantisek, 147
Specht, Susan M., 251, 311
Staphorst, Johannes L., 45
Steiner, Bret M., 157
Steiner, Theodor, 107
Straus, David C., 127
Strijdom, Barend W., 45
Sugahara, Takao, 113, 283
Sugiyama, Hiroshi, 277
Sy, José, 241
- Takahashi, Tomoko, 113, 283
Takamaru, Tsuneo, 257
Thomassen, Mary Jane, 91
Toyoda, Tukiyasu, 241
Truffaut, Nicole, 151
Tully, Joseph, 107
Turano, Adolfo, 13
Turchi, Sandra L., 135
- Uruburu, Federico, 301
Unger, William R., 203
- Vaishnav-Nair, Jyotsna, 53
Vávrová, Milada, 9
Van den Tweel, W. J. J., 267
Van Zyl, Ferdinand G. H., 45
Vicente, Eduardo, 301
- Wais, Allen C., 191
Wallace, R. John, 59
Weaver, Richard W., 353
Westermann, Peter, 273
Williams, Alan G., 79, 85, 175, 335
Withers, Susan E., 79
- Yagil, Ezra, 315
Yamaya, Shun-ichi, 113, 283
Yang, Tsanyen, 35
- Zimmer, Wolfgang, 341
Zsigray, Robert M., 261



- Acetylenic compounds, isolation of microorganisms on, 267
- Acinetobacter calcoaceticus*, phenylglyoxylate and phenylpyruvate decarboxylases in, 235
- Aeromonas*, virulence assessed, 163
- Aeromonas hydrophila*
effect of cultural conditions, 101
cholera-toxin cross-reactive factors, 101
- Agrobacterium tumefaciens*, agrocin-producing strains, 45
- Agrocin production, by *Agrobacterium tumefaciens*, 45
- Alteromonas haloplanktis*, effect of Na⁺ and K⁺ on growth, 65
- Aminopeptidase, from *Treponema phagedenis* (Reiter strain), 283
- Antibacterial agents, effect on hydrophobicity of *Escherichia coli*, 187
- Antibiotic absorbing resins, as chemotherapy index, 13
- Antibodies, monoclonal. *See* Monoclonal antibodies
- Antigens
cell surface, on *Streptococcus mutans*, 117
h and m, in *Histoplasma capsulatum*, 209
- Archaeobacteria
halophilic, cellular morphogenesis in, 191
7S RNA, distribution in, 69
- Bacillus megaterium*, synthesis of extracellular proteins, 9
- Bacillus subtilis* phage 41c, characterization of, 261
- Bacillus thuringiensis* var. *israelensis*, parasporal crystal, 121
- Bacteria
growth and concentrations of cyclic nucleotides, 23
membrane potential analyzed by spectrofluorocytometry, 181
proteolytic, in rumen, 59
sensitivity to heavy metals, 273
thermophilic methanogenic, 273
- Bacteroides fragilis*, efficacy of rifampicin SV and vancomycin against, 53
- Bacteroides rumenicola* subsp. *rumenicola*, formation of polysaccharide depolymerase and glycoside, 79
- Bacteroids, in nitrogen-fixing peanut nodules, 353
- Bacteriophage P1, behavior in *Erwinia carotovora* subsp. *carotovora*, 73
- Bacterium GB-2, characteristics of, 203
- Barley straw, lignified cell walls in, 217
- Bile acid metabolism, in intestinal microflora, 1
- Biotype-3, strains of *Agrobacterium tumefaciens*, 45
- Blood cultures
and antibiotic absorbing resins, 13
as chemotherapy index, 13
- Butyn-1-ol, isolation of microorganisms on, 267
- Calcium transport, in *Chlamydomonas*, 27
- Candida utilis*, mitochondrial mutation, 5
- Catabolite inactivation, in *Kluyveromyces fragilis*, 241
- Catalases, in *Escherichia coli*, 315
- Cecum, importance in *Clostridium botulinum* colonization, 277
- Cell surface antigens, in serotypes of *Streptococcus mutans*, 117
- Cell walls
in bacteroids, 353
lignified, in barley straw, 217
- Cellular respiration, inhibition by nitrite in *Pseudomonas aeruginosa*, 35
- Chemostat (continuous) cultures of *Bacteroides rumenicola*, 79
of *Vibrio pelagius* and *Alteromonas haloplanktis*, 65
- Chemotherapy, blood cultures as index of, 13
- Chitosomes, lack of concanavalin-A-binding sites in, 141
- Chlamydomonas*, calcium transport in, 27
- Chloroquine
in liquid holding recovery in *Escherichia coli*, 251, 311
in ultraviolet-irradiated *Escherichia coli*, 251, 311
- Cholera toxin, cross-reactive factors in *Aeromonas hydrophila*, 101
- Clostridium beijerinckii*, survey of plasmids in, 151
- Clostridium botulinum*
importance of cecum in colonization, 277
relationship of organism to large bowel, 277
- Clostridium butyricum*, survey of plasmids in, 151
- Colon, colonization by *Clostridium botulinum*, 277
- Concanavalin A, binding sites, 141
- Coprinus cinereus*
(1 → 3) β -glucanase activities, 257
stipe elongation in, 257
- Cyclic nucleotides
and bacterial growth, 23
and development of *Myxococcus xanthus*, 289
- Cytophaga* species, characteristics of bacterium GB-2, 203
- Dipicolinic acid
changes in DNA density by, 329
role in spore heat resistance, 329
- DNA, changes in density by dipicolinic acid, 329
- Elastase, in *Pseudomonas aeruginosa*, 307
- Enterobacter cloacae* DG-6, transformation of methoxylated aromatics by, 321
- Erwinia carotovora*, subsp. *carotovora*, behavior of bacteriophage P1 in, 73
- Escherichia coli*
antibacterial agents and hydrophobicity, 187
catalases in, 315
chloroquine supplementation of ultraviolet lethality in, 257
effect of puromycin aminonucleoside on excision and recombination repairs, 31
repair inhibition of potential mutations, 311
ultraviolet irradiated, 311
wild-type strain and envelope mutant, 187
- Ethanol, production by *Saccharomyces cerevisiae*, 41
- Eubacterium limosum* B2
effect of methanol and carbon dioxide on, 245
growth and organic acid production, 245
- Excision repairs, in *Escherichia coli*, 31
- Extracellular proteins, suppression of synthesis in *Bacillus megaterium*, 9
- Fibronectin, interaction with *Treponema pallidum*, 157
- Fructose 1,6-bisphosphatase, catabolite inactivation in *Kluyveromyces fragilis*, 241
- Gas concentrations, measurement in ovine rumen, 335
- Genetics, of ethanol tolerance and production by *Saccharomyces cerevisiae*, 41
- Glucosyltransferase, from cultures of *Streptococcus mutans* 6715, 135

- Glycoside hydrolase enzymes
formation, 79
subcellular distribution, 175
- Halobacterium halobium*, temperature dependence of photoresponse, 97
- Hemicellulose, degradation in rumen ciliate protozoa, 86
- Hexahydro-1,3,5-triethyl-s-triazine, plasma-mediated resistance of *Pseudomonas putida*, 17
- Hydrophobicity, in *Escherichia coli*, 187
- Histoplasma capsulatum*, preparation of h and m antigens, 209
- Immunoglobulin G, response to vaccination with *Vibrio cholerae* vaccine and procholeraegenoid, 147
- Immunoregulatory properties, characteristics of bacterium GB-2, a presumptive *Cytophaga* species, 203
- Intestinal microflora
bile acid metabolism, 1
effect of lincomycin treatment, 1
- Kluyveromyces fragilis*, catabolite inactivation of fructose 1,6-bisphosphatase in, 241
- Legionella pneumophila*, growth and cyclic nucleotides, 23
- Legionellae, peptide synthesis, response to temperature, 347
- Lethality studies, assessment of *Aeromonas* virulence, 163
- Lincomycin, effect on intestinal microflora, 1
- Lipopolysaccharides
interaction with porin proteins, 229
of *Pseudomonas aeruginosa*, 91
- Mass spectrometer, portable quadrupole, 335
- Mercaptoacetyl-phenylalanyl-leucine, oxidation in presence of bacteria, 307
- Metals, heavy, sensitivity of thermophilic methanogenic bacteria to, 273
- Methanol metabolism, by *Eubacterium limosum* B2, 245
- Methoxylated aromatics, transformation by *Enterobacter cloacae* DG-6, 321
- Microflora, intestinal, 1
- Microorganisms
isolation on 3-butyn-1-ol, 267
in rumen, 217
- Mitochondrial mutation, molecular approaches in *Candida utilis*, 5
- Mollicutes, uridine phosphorylase activity in, 107
- Monoclonal antibodies
against *Streptococcus mutans* ribosomes, 117
raised to *Streptococcus mutans*, 197
- Morphogenesis, cellular, in halophilic archaeobacterium, 191
- Mutation, mitochondrial, in *Candida utilis*, 5
- Mutations, potential, repair inhibition in *Escherichia coli*, 311
- Myxococcus xanthus*
cyclic nucleotides and development of, 289
mutants, analysis of, 289
- Nitrogen fixation, in peanuts, 353
- Nitrous oxide
amperometric method for determination, 341
in denitrification, 341
nitrogenase-catalyzed reduction, 341
- N-Methyl-N'-nitro-N-nitrosoguanidine*, action in *Rhizobium trifolii*, 325
- Nucleotides, cyclic, and bacterial growth, 23
- (1 → 3)- β -Glucanase, in *Coprinus cinereus*, 257
- Organic acid production, by *Eubacterium limosum* B2, 245
- Parasporal crystal, of *Bacillus thuringiensis* var. *israelensis*, 121
- Peanut nodules, cell wall of bacteroids, 353
- Phage 41c, in *Bacillus subtilis*, 261
- Phagocytic inhibitory activity, of *Pseudomonas aeruginosa* lipopolysaccharide, 91
- Phaseolotoxin, genes for synthesis in *Pseudomonas syringae* pv. *phaseolicola*, 295
- Phenylglyoxylate decarboxylase, from *Acinetobacter calcoaceticus*, 235
- Phenylpyruvate decarboxylase, from *Acinetobacter calcoaceticus*, 235
- Photoresponse, temperature dependence in *Halobacterium halobium*, 97
- Plasmid-mediated resistance, of *Pseudomonas putida* to hexahydro-1,3,5-triethyl-s-triazine, 17
- Podospira anserina*, isolation, purification, and transformation of protoplasts, 301
- Polyplastron multivesiculatum*, glycoside hydrolase and polysaccharide depolymerase enzymes in, 175
- Polysaccharide depolymerase enzymes
formation, 79
subcellular distribution, 175
- Porin proteins, interactions with lipopolysaccharides, 229
- Procholeraegenoid, in *Vibrio cholerae*, 147
- Protease, production by type-III, group-B *Streptococcus*, 127
- Proteins, extracellular, in *Bacillus megaterium*, 9
- Proteolytic rumen bacteria, synergism between, 59
- Protoplasts
in fusion and transformation of *Schizosaccharomyces pombe*, 169
from *Podospira anserina*, 301
- Protozoa, ciliate, in rumen, 86, 175
- Pseudomonas aeruginosa*
elastase inhibition by 2-mercaptoacetyl-phenylalanyl-leucine, 307
lipopolysaccharide, phagocytic inhibitory activity, 91
nitrite inhibition of cellular respiration, 35
- Pseudomonas putida*, plasmid-mediated resistance to hexahydro-1,3,5-triethyl-s-triazine, 17
- Pseudomonas syringae* pv. *phaseolicola*, phaseolotoxin synthesis in, 295
- Puromycin aminonucleoside, effects on *Escherichia coli*, 31
- Quinacrine, in ultraviolet-irradiated *Escherichia coli*, 311
- Recombination repair, in *Escherichia coli*, 31
- Rhizobium trifolii*, *N-methyl-N'-nitro-N-nitrosoguanidine* in, 325
- Respiration, cellular, inhibition by nitrite, 35
- Rifamycin SV, efficacy against *Bacteroides fragilis*, 53
- RNA, 7S, distribution in archaeobacteria, 69
- Rumen
ciliate protozoa in, 86, 175
microorganisms, and lignified cell walls of barley straw, 217
ovine, measurement of dissolved gas concentrations in, 335
proteolytic bacteria in, 59
- Saccharomyces cerevisiae*
ethanol tolerance and production by, 41
synchronism determination in, 225
- Schizosaccharomyces pombe*, fusion and transformation, 169
- Spectrofluorocytometry, in analysis of bacterial membrane potential, 183
- Spectrofluorometry, to determine synchronism in *Saccharomyces cerevisiae*, 225
- Spheroplasts, in fusion and transformation of *Schizosaccharomyces pombe*, 169
- Spores, bacterial, heat resistance of, 329
- Stipe elongation, in *Coprinus cinereus*, 257
- Streptococcus*, type III, group B, char-

- acterization of protease production by, 127
- Streptococcus mutans*
 - glucosyltransferase from, 135
 - monoclonal antibodies, 197
 - ribosomes, monoclonal antibodies against, 117
- Synchronism, determination in *Saccharomyces cerevisiae*, 225
- Synergism, between species of proteolytic rumen bacteria, 59
- Temperature
 - effect on peptide synthesis in *Legionellae*, 347
- effect on synthesis of extracellular proteins in *Bacillus megaterium*, 9
- Thermophilic bacteria, sensitivity to heavy metals, 273
- Treponema pallidum*, interaction with fibronectin, 157
- Treponema phagedenis* (Reiter strain)
 - aminopeptidase from, 283
 - vascular permeability in, 113
- Trypticase soy broth, and growth of cultures of *Streptococcus mutans* 6715, 135
- Ultraviolet light, lethality in *Escherichia coli*, 251
- Uridine phosphorylase activity, in the Mollicutes, 109
- Vaccination, response of human immunoglobulin G to, 147
- Vaccine, *Vibrio cholerae*, 147
- Vancomycin, efficacy against *Bacteroides fragilis*, 45
- Vascular permeability, increase by *Treponema phagedenis* (Reiter strain), 113
- Vibrio cholerae*, vaccine and procholera-genoid, 147
- Vibri pelagius*, effect of Na⁺ and K⁺ on growth, 65